

Claims

1. A method of preparing a rigid polyurethane foam from

- 5 (1) an organic polyisocyanate comprising an aromatic polyisocyanate,
- (2) a polyol comprising a polyether polyol and/or polyester polyol,
- 10 (3) a blowing agent, and
- (4) a surfactant, a catalyst and other auxiliaries,

characterized in that

- 15 the blowing agent (3) is cyclopentane and water,
- the polyol (2) is a polyether polyol and/or polyester polyol having poor compatibility with cyclopentane, and
- 20 cyclopentane is mixed and dispersed in a polyol premix comprising the components (2) to (4).

2. A method of claim 1 characterized in that a high pressure circulating line equipped with a static mixer is used to mix and disperse cyclopentane.

25 3. A method of claim 1 characterized in that at least part of the polyol is a polyether polyol prepared by addition polymerization of ethylene oxide and propylene oxide to an initiator.

30 4. An apparatus for preparing a rigid polyurethane foam, used in the method of claim 1, characterized in that it comprises a static mixer in a high pressure

circulating line for mixing and dispersing cyclopentane, and the circumferential speed of a stirrer of a polyol tank is at least 0.5 m/s.

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